**Bottle Rockets – Engineering Design**

**Grading Criteria**

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|  | **Points**  **Possible** | **Points**  **Earned** |
| Responded to prompts – forces that impact stability of rocket prior to class on 8/31/16 | 10 |  |
| Brought Bottle Rocket #1 ready to launch on 8/31/16 – 10 points  Participated positively during class ☺ - 5 points | 15 |  |
| Prepare a new rocket based upon observations and data collected after 1st launch.   * Write a description with annotated sketches for your interactive notebook of modifications you made and why. - 5 points * Bring completed rocket ready to launch on 9/21 - 5 points * Launch your rocket - 2.5 points | 12.5 |  |
| After launch of Rocket #2 – Use collective class data.   * Make a graph of data comparing your Rocket 1 & Rocket 2 (or a different graph with Dr. Suters’ approval) – 5 points * Analyze the graph and the data in the spreadsheet. What does it tell you? What observations can you make about weight of rocket?; amount of water added?; PSI of air added? Etc. – 5 pts. * What changes would you make if you were to make a 3rd rocket? 2.5 points | 12.5 |  |
| **Total points** | 50 |  |